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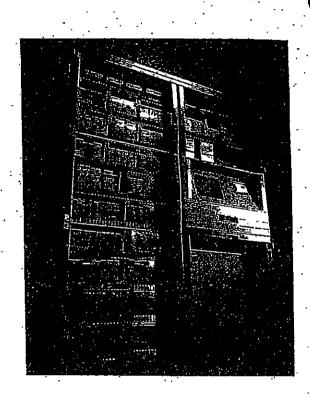
- ◆. Controls Inventory
- **♦** Captures Lost Revenue
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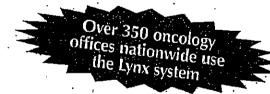
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- Developed specifically for office-based oncology practices
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- Behind every Lynx system stands a dedicated OTN support team, including pharmacists and oncology nurses
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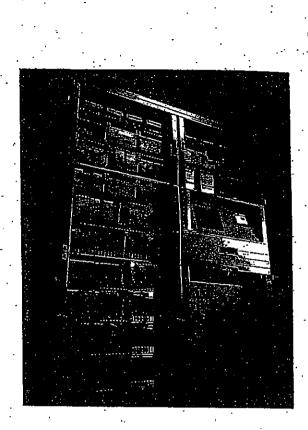
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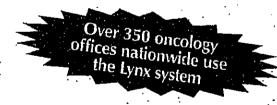
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REIMBURSEMENT ASSISTANCE

Bobbi Buell, MBA President, Documedics Oncology Therapeutics Netlyork

Regulations Impact Cancer Practices

Balanced Budget Refinement Act (BBRA) of 1999

The BBRA changed Medicare payment for hospitals and, to some extent for cancer care physicians. Highlights include:
Ambulatory Payment Classifications (APCs)

This proposed methodology for the hospital outpatient prospective payment system, is very harsh for hospital-based cancer clinics in that cancer drug payments will be limited to 556-216 without additional payments for supportive care drugs that accompany cancer therapy like antiemetics, growth factors, biologics, etc. Technological changes would happen slowly, meaning that new cancer therapies would be paid at 556 for 2-3 years. The situation improved with BBRA – but it is pertinent to read the fine print. Implementation of APCs is set to begin 7/1/2000.

• There will be an online payment. An outlier pool will be made available for certain services, consisting of 2.5-3.0% of the total payments projected for outpatient hospital services. This pool will be used for services that have costs exceeding an unspecified threshold. Payment can be applied to any APC-paid service that exceeds the outlier threshold, and will be made on the hospital's aggregate cost-to-charge ratio.

 There will be a pass-through for certain types of drugs. For drugs that are covered by Medicare in a hospital outpatient setting, Medicare will make additional payments if they meet certain criteria: they must be Orphan drugs, cancer therapy which includes chemo, antiemetics, hemalopoietic growth factors, colony stimulating factors, biological response modifiers, a biphosphonate, and/or a device used in brachytherapy; or they must be radiopharmaceuticals. In addition, the pass-through will also apply to ANY drug or device that was not reimbursed by Medicare as of 12/31/96. The payment for drugs will be the difference between the APC payment and 95% of AWP. This provision is only good for 2-3 years. The amount of payments shall not exceed 2.5% of the lotal outpatient payments and, if the outlay exceeds HCTA projections, the pass-through can be reduced.

Chemo AND chemo administration will be paid in another pass-through. In separate section, BBRA states that certain codes will be paid as if they were on the Part B [Physician] fee schedule. The chemo drug codes involved are 19000-19000; 19040-19151; 19170-19185; 19200-19201; 19206-19208; 19211; 19230-19245; and, 19265-19600. Chemo administration codes include 36260-36262;

36489; 36640; 36823; and, 96405-96542. This pass-through does not seem to be as limited as the one for all drugs. How it's going to be paid (cost report versus claim) however, is still an issue.

• Temporary increase in hospice payments. For 2007, there will be a 0.5% increase and for 2002, there will be a 0.75% increase. These will NOT be built into the payment base.

 VIG to undergo scrutiny. Medicare will undertake a study to determine whether IVIG (intravenous immune globulin) should be paid outside the hospital or office setting, and will investigate whether this can be done safely.

• There is now a transitional custion against possible blows of APCs. For cancer hospitals ONIX, if the amount under APCs is different from pre-BBRA amounts, Medicare will pay the difference. This will not happen on a per claim basis - so there can still be cash flow ramifications to this. For other hospitals, there will be transitional payments of diminishing amounts through 2003.

• Physician update. The changes in the update factor to the physician fee schedule will be 'normalized' to guard against wild swings in payment. Changes to the Medicare fee schedule will be published by 11/1.

• More data to be collected on practice expense. Practice expense relative values for chemo administration have been inadequate for oncologists. This is because the payment is inadequate for amount of cost involved. Medicare is going to look at data provided by other entitles to evaluate the fairness of practice expense relative values for all specialies.

There will be a GAO study on safe and effective outpatient cancer therapy. The GAO will examine how cancer services should be paid in terms of practice expense relative values, work relative values, and standards for 'safe' treatment.

Increase in PAP smear reimbursements.
 The rate will go up to \$14.60.

 Transplant patients will get extended coverage for maminosuppressive drugs.
 Transplant patients whose drug benefit runs out in the next five years will get an extension of behefits. In 2000-2001, this extension will be eight months.

Medicare Physician Fee Schedule (MPFS)
Published in the Federal Register, Nov. 2, 1999,
and effective 1/1/2000, the MPFS is also available

online at www.HCFA.gov. Provisions include: .

♠ Resource-based Malpractice Relative Values, Malpractice is one of the three relative value sets that determine Medicare payment. Since they are relatively insignificant in medical specialties, this does not have much influence on oncology payments.

 Conversion Factor, important for negotiations with all insurance companies, for 2000, it will be \$36.6137. This up from \$34.7315 for 1999 - a 5.4% increase.

◆ Practice Expense Relative Values in Facilities. Facilities are hospitals (inpatient) and outpatient), psych hospitals, ASCs, rehab hospitals and nursing hornes. When physicians do professional services in these facilities that they ordinarily perform in their offices, they will take a reduction in Practice Expense RVUs. The important ones for physicians are outpatient EM services (99211-99215 and 99241-99245). Some of these reductions are 30-35%.

Nurse Practitioner (NP) Qualifications. NPs can obtain a provider number and ball Medicare. Last year, Medicare proposed that NPs had to have a Masters' Degree to get a provider number. This was met with a storm of protest. Now, NPs without Masters' can be grandfathered until 1/1/2003. NPs should get provider numbers now.

◆ Coverage of Prostate Screening Tests for Men over 50 years old. Effective 1/1/00, men over 50 can have prostate screenings annually, if they are Medicare beneficiaries. The screening code is G0103. A provision is that Digital Rectal Exam (DRE) is also covered once a year; but, it is NOT payable with an EM service. It has the same value as 99211 and the code is G0102.

 A4550, A4550 is soll around for use with bone marrows, himbar punctures, thoracentesis, paracentesis, and intra-body chemos. The price is down to about \$18.00.

Self Administration

HCTA stated last year that it would issue a policy regarding drugs that are administered intramuscularly and/or subcutaneously in the office. This policy could have meant the end of reimbursement for these types of cancer and supportive drugs. As part of the Omnibus Budget Reconciliation Act of 1999 (11/29/99), this policy will not be enacted for one year. In the interim, Medicare and Congress will hold two town meetings to ascertain what policy should be written, as

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Novantrone®

(mitoxantrone for injection concentrate)
From Immunex Corporation



ovantrone, in combination with corticosteroids, is indicated for initial cancer chemotherapy for the treatment of patients with pain related to advanced hormone-refractory prostate cancer.

Product Information

	CAYALOG NUMBER	NDC	. ITEM	. Unit stze	ORDER .	PRICE/	AWP
٠.	902-200	58406-0640-03	Novantrone (2 mg/mL)	20 mg MDV	1	\$759.00	\$812.74.
	902-210	58406-0640-05.	Novantrone (2 mg/ml.)	25 mg MDV	1	\$947.50	\$1,015.90
•	902-220	58406-0640-07	Novantrone (2 mg/ml)	30 mg MDV	ī	\$1,138.00 -	51,219,10

Novantrone Product Support:

Novantrone Reimbursement Holline	1-800-321-4669
Medical Information	1-800-466-8639
J Code	J9293 per 5 mg
ICD-9 Code (HRPC)	185



There's Still Hope





Largest Trial Conducted in Recurrent Anaplastic Astrocytoma

- Worldwide multicenter, single-arm trial at 32 centers (15 U.S., 17 International)
- ◆ 162 patients with anaplastic astrocytoma at first relapse
- Karnofsky Performance status ≥ 70

- Failed prior radiation therapy ± chemotherapy with a nitrosourea
- 54 out of 162 were considered chemotherapy refractory (relapsed following a procarbazine/nitrosourea therapy.

2200 oi Refractory Patients Achieved A Response...

- 9% (5/54) were complete responders (CRs), 13% (7/54) were partial responders (PRs)
- ...with Measurable Survival* Results...
- 45% of patients were progression-free at 6 months
- ◆ Median Progression-free-survival was 4.4 months
- Median duration for all responders:
 50 weeks (16-)14 weeks)
- ◆ Median duration for CRs: 64 (52-114 weeks
- ◆ 74% of patients were alive at 6 months
- ◆ Median overall survival was 15.9 months

* The indication for TEMODAR** is based on the response rate in the indicated population. No results are available from randomized controlled trials in recurrent AA that demonstrate a clinical benefit resulting from treatment, such as improvement in disease-related symptoms, delayed disease progression, or improved survival.

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An introduction to ORCA

ORCA (Oral Reimbursement for Cancer Agents) is a free service provided by Oncology Therapeutics Network (OTN), which can simplify and expedite billing and reimbursement for oral chemotherapy and supportive care medicines in your office."

Why participate?

- Simplifies the use of oral therapies in the physician's office
- ◆ Eliminates concerns over reimbursement delays and denials.
- · Service is provided "free of charge" by OTN

How does ORCA work?

There are four components to the program: -

- 1. Enrollment in the National Supplier Clearinghouse (NSC)
- 2 Drug fulfillment through OTN
- 3. Billing, collection, and appeals of individual claims through ORCA
- 4 Drug replacement is guaranteed if reimbursement is not approved

Which oral medications and insurance carriers are covered by ORCA?

- ◆ Cytoxan® Tablets (cyclophosphamide tablets, USP)
- ◆ VePesid[®] (etoposide) Capsules

The ORCA program covers all Medicare patients. It is expected that the program will be expanded in the near future to cover additional chemotherapeutic and supportive care medicines and additional insurance carriers.

Who is eligible to participate in ORCA?

Any office-biased physician practice is eligible to participate in the ORCA program.

How do I enroll in the program?

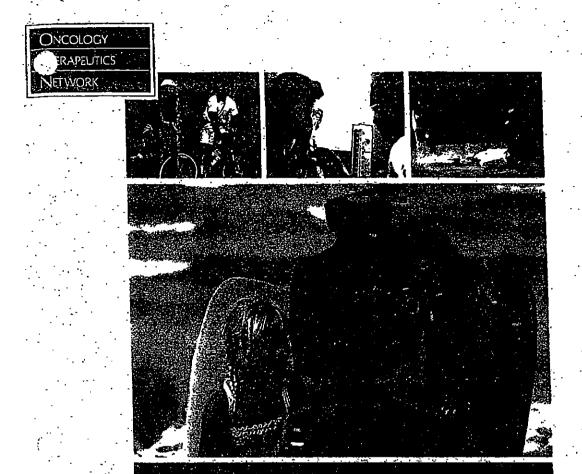
- If you are not already an OTN customer, call 1-800-482-6700 to set up an account.
- Once you have set up an account, or if you are already an OTN customer, call the ORCA program at 1-877-SAY-ORCA (1-877-729-6722) to request an enrollment packet.

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The CBCA program is a first spring provided by OTNI and is administered by AccessiveD. BYDD College Boaks and Soaks 1000. Overhand Park, KS 66211, AccessiveD is a leading termbarreness and consisting iron forcased on oncology.



www.melanoma.com

Information about melanoma prevention, diagnosis, staging, and adjuvant therapy

Skin self-examination techniques

Skin safety, sun safety, and risk reduction

Nutrition and exercise tips

Resouce listings for melanoma patients, their families, and friends

LEADING THE WAY IN MELANOMA THERAPY AND SUPPORT

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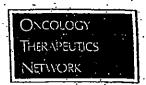


Aventis Pharmaceuticals Kansas City, MO 64134

5-HT₃ Receptor Antagonist

Excellent Efficacy and Safety Profile

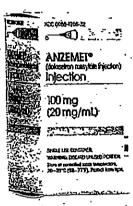
- Anzemet Injection is indicated for the prevention of nausea and vomiting associated with initial and repeat courses of emetogenic cancer chemotherapy, including high-dose cisplatin.
- Anzemet Tablets are indicated for the prevention of nausea and vomiting associated with moderately emetogenic cancer chemotherapy, including initial and repeat courses.
- ◆ Proven Efficacy and Simplicity Anzemet injection can be safely infused intravenously as rapidly as 100 mg/30 seconds or diluted in compatible IV solutions and infused over 15 minutes. The recommended oral dosage of Anzemet is 100 mg given within one hour before chemotherapy.



I-CODES

Injections: J1260, per 1 mg

Tablets: Q0180, per 100 mg



For more information on dosing and administration, please contact your Hoechst Marion Roussel representative.

Great Value!

CATALOG - NUMBER -	NÓC	BRAND NAME	ПЕМ	UNIT SIZE	ORDER QUANTITY	PRICE/ UNIT	AWP
900-250	0088-1206-32	Anzemet	dolasetron mesylate	100 mg vial	1	\$77.75	\$155.88
970-300	0088-1203-05	Anzemet	dolasetron mesylate	100 mg tablets	5	\$321.45	\$343,20
970-305	0088-1203-29	Anzemet	dolasetron mesylate	100 mg tablets blister pack	Š · ·	\$321.45	\$686,40
970-310	008B-1203-43	Anzemet,	dolasetron mesylate	100 mg tablets	10.	\$642.95	\$686.40

Outstanding Support:

Reimbursement and Patient Assistance Program Hotline 1-888-895-2219

Call the Anzemet Hotline for help with reimbursement and patient assistance programs, Monday through Friday between 10 a.m. and 6 p.m. EI.

Visit the website! www.anzemet.com

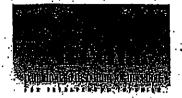
Call OTN today at 1-800-482-6700 to place your order!

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Novartis Oncology is pleased to introduce

Performance Program for Medical Practices

Highlights* †

2% discount

at the time of order on AREDIA when you enroll in the program by purchasing through our direct selling agent, Oncology Therapeutics Network (OTN).

In addition, based on your AREDIA unit purchases through OTN, participants will be eligible to receive rebates of 3%, 4% or 5% depending on the growth in milligram purchases during the year 2000 compared to the year 1999.

3% rebate

you achieve an increase up to 10% over your total 1999 AREDIA milligram purchases

4% rebate

if you achieve an increase >10% and ≤20% over your total 1999 AREDIA milligram purchases

5% rebate

if you achieve an increase >20% over your total 1999 AREDIA milligram purchases

To participate in this program, call OTN at 1-800-482-6700 or ask your Novartis Oncology Sales Specialist.

- This program applies only to office-based oncology and unology practives unless otherwise agreed by to Novartis.
- This pricing is subject to acceptance to terms and conditions contained in a price list to be made available through OTN.

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- Flexible and convenient dosing— 50-100 mg/m² Q3 • Two vial sizes—20 mg and 80 mg
- Only taxane approved for 1-hour IV infusion— saves chair time
- No infusion filter required
- Reimbursement and drug information notline:

or visit www.taxotere.com





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Oncology Therapeutics Network

Update on the Diagnosis and Treatment of Prostate Cancer

Barry R. Goldspiel, PharmD, FASHP

nostate cancer is the most common cancer among American men and is the second leading cause of cancerrelated deaths in all males. In the year 2000, 180,400 new cases and 31,900 deaths are expected. Because of advances in diagnostic techniques, such as prostate-specific antigen (PSA) testing and greater public awareness, the majority of cases are now diagnosed when the cancer is still localized. This has resulted in reduced mortality and a decrease in the number of patients who present with advanced disease. In recent years, research has focused on strategies for improving localized disease control. Recent studies suggest that neoadjuvant androgen deprivation before radiation or surgery for localized or locally advanced prostate cancer may produce improved outcomes.

While androgen deprivation is still considered standard therapy for the initial treatment of metastatic prostate cancer, the best method to induce androgen deprivation - orchiectomy, a luteinizing hormone-releasing hormone · (LHRH) analog or the combination of either with an antiandrogen — is still controversial. New approaches, including a renewed interest in chemotherapy and a reevaluation of clinical end points are being used for patients with advanced prostate cancer. This article, will discuss PSA testing; localized management with neoadjuvant androgen deprivation, combined androgen blockade for metastatic prostate cancer, and chemotherapy regimens in advanced prostate cancer management.

Prostate-Specific Antigen Testing

PSA has good prostate specificity and is a very useful tumor marker. " Unfortunately, benign conditions, such as prostatitis, urinary retention, and benien prostatic hypertrophy can also elevate PSA levels. To increase PSA specificity, several indices have been developed,23 including PSA density, age-related PSA levels, volume-referenced PSA, and percent free PSA. Of these indices, volume-referenced PSA and percent free PSA seem to be the most useful3 Volume referenced PSA controls for gland volume (which usually increases with age) and creates a separate acceptable PSA range for gland size ranges. Unbound or free PSA represents a minor portion of the total circulating PSA, and free PSA is lower in men with prostate cancer than in those with benign prostatic hypertrophy: For men with total PSA levels from 4.1 to 10 ng/mL (suspicious for prostate cancer), the lower limit for normal free PSA ranges from 17% to 25%? In men with lower PSA levels (2.5 to 4 ng/mL), where detecting cancer might greatly improve survival; free PSA levels < 25% suggest prostate cancer.3 Another new test, ProstAsure®, simultaneously analyzes total PSA levels, prostate acid phosphatase, and creatinine phosphokinase enzymes in relation to age. In comparative studies, ProstAstate® performed better than analyses for free PSA levels alone and was effective in detecting cancer in patients with a total PSA level less than 4 ng/mL² PSA testing, clinical stage, and Gleason score is also used to predict whether the prostate cancer is organ-confined at diagnosis.4.

Prostate Cancer Treatment

Androgen deprivation, used in the past only for advanced prostate cancer, now has a role for patients with localized prostate cancer. Also, using clinical benefit as an acceptable response for patients with advanced prostate cancer has caused a renewed interest in testing various chemotherapy agents and combinations in this prostate cancer patient population.

Neoadjuvant Androgen Deprivation for Localized Prostate Cancer

As more patients are diagnosed with localized prostate cancer, new strategies are being developed to improve outcomes in these patients. Messing et all demonstrated that immediate hormonal therapy to induce androgen deprivation (ie, with an LHRH analog or orchiectomy) improved survival and reduced the recurrence risk in patients with node-positive prostate cancer.

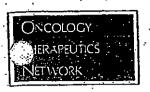
Neoadjuvant androgen-ablative therapy has also been used to reduce tumor size or "downstage" disease prior to definitive radical prostatectomy or radiation therapy in patients with stage B2 or C prostate cancer.5-5. The improved outcomes associated with neoadjuvant androgen deprivation include decreased local progression rate after radiation therapy, decreased positivé surgical margin rate, decreased radiation related toxicity to surrounding normal tissue, and increased probability of finding organ-confined disease at surgery.6-8 Flutamide (Eulexin®) (in combination with an LHRH agonist) and goserelin (Zoladex®) (în combination

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with flutamide) are FDA-approved for use prior to and during the period of radiation therapy for patients with stage B2 or C prostate cancer.

While it is believed that neoadjuvant androgen-ablative therapy reduces tumor volume, making the radiation therapy or surgery more effective, it is possible that the duration of androgen deprivation may also contribute to the improved outcome. Bolla et al? demonstrated that goserelin. given during and continued for three years after definitive radiotherapy, compared to radiation therapy alone improved local control and survival in patients with locally advanced prostate cancer. Thus, while androgen deprivation seems useful in localized prostate cancer, which androgen deprivation therapy forchiectomy, an LH-RH analog, or the combination of either with an antiandrogen) and the optimal duration of neoadjuvant/adjuvant therapy still needs to be defined.

Androgen Deprivation for Advanced Prostate Cancer

Androgen-ablative therapies for patients with metastatic prostate cancer include orchiectomy or administering an LH-RH agonist, either alone or in combination with an antiandrogen (ie. combined androgen blockade (CABI). Initial studies comparing CAB to orchiectomy or an LH-RH agonist alone seemed promising; however, several well-designed, randomized trials have demonstrated no consistent benefit with CAB.10-13 Three meta-analyses of trials comparing CAB to conventional medical or surgical castration have been performed (Table 1).14-16 These metaanalyses failed to demonstrate a dear advantage of CAB. Some studies where CAB proved more beneficial than monotherapy showed that the response difference was most pronounced in

patients with minimal disease (ie, no disease in ribs, long bones, or soft tissue other than lymph nodes) and a good performance status; however, this benefit is not consistent either.¹⁷

There is still controversy about when to start patients with advanced prostate cancer on androgen deprivation. ^{17,18} Only one randomized trial has addressed this issue and this trial favored starting androgen deprivation at time of diagnosis. ¹⁹ However, this practice has not been completely adopted because of several questions about the trial design.

It is not clear which combinations of therapy to use in this patient popula-Uon. There are two LH-RH agonists currently available in long-acting depot formulations. All of the antiandrogens (eg. slutamide, bicalutamide, nilutamide) share similar FDA-approved indications; flutamide and bicalutamide are indicated in combination with an LHRH agonist and nilutamide is indicated in combination with orchiectomy.18 Adverse effects common to all antiandrogens include gynecomastia, breast tendemess, hot flushes, diarrhea, and liver function test abnormalities.18 Only one randomized comparison of two antiandrogens (flutamide and bicalutamide) has been conducted; dianthea was more common in the flutamide-treated patients than in the bicalutamide treated patients.15 Antiandrogen withdrawal syndromes, where patients have responded with significant PSA reductions and improved clinical symptoms when the antiandrogen is discontinued, have been described for all three antiandrogens 2021

Information thus far suggests that we might not be using CAB optimally.^{17,14,22} Strategies where intermittent androgen deprivation have been described.²² and are based on prolonging the response to

androgen deprivation therapy by reducing the possibility for developing androgen independence. These strategies include using CAB around the time of LHRH therapy initiation to reduce the symptoms from the flare phenomenon and using PSA as a marker for when to stop and start androgen deprivation therapy.

Chemotherapy for Advanced Prostate Cancer

While no antineoplastic agent or combination is known to prolong survival in patients with advanced prostate cancer, some agents or combinations do provide clinical benefit and/or reductions in a meaningful surrogate end point such as PSA level **D24** Clinical benefit includes improved quality of life, reduced pain, and reduced analgesic requirements.

Miloxantrone combined with prednisone or hydrocortisone can produce a meaningful clinical benefit response. 15,26 Pain reduction, reduced analgesic requirements, and improved quality of life occur in around 30% of patients. 25 Several other single agents or combinations, such as estramustine plus vinblastine, estramustine plus etoposide, ketoconazole plus doxorubicin, estramustine plus paclitaxel, docetaxel, and etoposide plus cyclophosphamide can produce responses manifested as decreased PSA levels, pain relief, and delays in bone scan progression. 21

There is a need to develop new agents for advanced prostate cancer that affect survival. Current investigations are exploring new molecular targets, such as apoptosis-inducing agents, differentiating agents, antimetastasis agents, vaccines, vitamin-D analogs, cyclin-dependent kinase inhibitors, monoclonal antibodies, growth receptor antibodies, and oncogene regulators.²⁰

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Conclusions

More cases of prostate cancer are diagnosed when the cancer is localized. because better screening and diagnostic methods, such as the various PSA indices, have been developed. Localized prostate cancer is curable with surgery or radiation therapy. Androgen deprivation, as neoadjuvant or adjuvant therapy, can improve local disease control and survival. Androgen ablation can provide effective symptom palliation for patients with advanced prostate cancer. However, it is not clear if CAB using an antiandrogen with either orchiectomy or an LHRH agonist is significantly better than either orchiectomy or an LH-RH agonist alone. Ongoing studies are attempting to define the best initial therapy, determine when to initiate therapy, identify which patient subpopu-



Table 1. Meta-Analyses of Randomized Trials Companing Combined Androgen Blockade to Androgen Deprivation Monotherapy

14	21 trials 10 trials	7871	at 2 y: 0.97 at 5 y: 0.87	0.87-1.09 0.81-0.94
15	13 trials, including only nonsteroidal antiandrogens	3732	D.81	0.74-0.94
16	7 trials, comparing militarnide plus orchiectomy to orchiectomy alone	1191	0.84	0.70-1.00

CAB-combined androgen blockade.

* A relative risk < 1 indicates that CAB reduces mortality

lation might benefit most from a given treatment modality, and identify which surrogate markers should be used to monitor disease activity. For patients who become hormone-refractory, chemotherapy can provide clinical benefit manifested as pain reduction and reduced analgesic requirements. Continued efforts to develop new agents directed at prostate cancer-specific molecular targets may provide new therapeutic approaches that positively affect survival.

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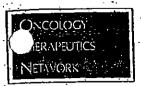
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Average Wholesale Prices and 2000 HCPCS Codes

The Average Wholesale Prices (AWPs) and HCPCS codes for drugs commonly stoded by OTN is listed. For ease of use, we list the AWP information in the first three columns alphabetically by their generic name. The AWPs are obtained from the 2000 Red Book and the March 2000 Red Book Update.

PRODUCT	VIAL SIZE	NDC	AWP/VIAL	2000 HCPCS	BILLING ·	HOTLINE NO.
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Ethrol®					DIE SE	
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Fungazone*			THE STATE OF			
Amphotericin B Oral Susp		00087-1162-10		<u> </u>		800-872-8718
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Cyclophosphamide Lyopholized		00015-0548-4		39096		800-872-8718
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REIMBURSEMENT			1. 4				
rioduct	VIAL SIZE	NDC	AWP/VIAL	2900 HCPCS	DATTING STINU	HOTLINE NO.	
Immune Clobulin 50mg/ml, inj w/IV set		49669-1614-01		11561			
instante Globulin 100mg/ml, inj w/W set	0.00	49669-1622-01 49669-1623-01)156 1 . 1561			シ電
Immune Globulin 100mg/ml, inj w/IV set i Immune Globulin 100mg/ml, inj w/IV set		49669-1624-01	被推])561		•	羅 :
immune Clobulin 100mg/ml, inj		000726-0648-12		J1561		800-998-9180	金
Immane Globulin 100mg/ml, inj	i Dia L	00026-0648-20		J1561 ·		800-998-9180	- 1
Immune Globulin 100mg/ml, inj		00026-0648-71 00026-0648-24		31561 31561		800-998-9180 800-998-9180	. 🥞
Immune Globulin 190mg/nd, inj Immune Globulin, pwd		32769-0471-72		. j1562		0003303100	· 3
Immune Globulin, pwd		52769-0471-75		11562		,	揰
Immune Globalin, pwd		.52769-D471-80 °		J1562			**
RHO (d) Immune Globulin, pwd		60492-0021-01]2792			4
RHO (d) Immune Globulin, pwd		60492-0073-01 60492-0024-01		J2792 I2792 ·	海绵	į.	ă
RHO (d) Immune Globulin, pwd Intran [®] -A		99 00172302401		12772			
Interferon Alpha 28 3MIU/0.5ml		00085-1184-02		J9214 _.		800-521-71 <i>5</i> 7	3
Interferon Alpha 2B 5MRU/0.5ml		00085-1191-02		J9214 /		800-521-7157	
Interferon Alpha 28 10M/U/ML	非新国际	00085-1179-02	OR	J9214		8 800-521-7157 8 800-521-7157	1
Interferon Alpha 28 6MIU/ml, inf Interferon Alpha 28 IDANU/ML, inf		00085-1168-01		39214 39214		800-521-7157 800-521-7157	4
Interferon Alpha 28, pwd		00085-0120-02		J9214		800-521-7157	, of
Interferon Alpha 28, pwd		00085-0 <u>371-02</u>		19214	-	B00-521-7157	46
Interferon Alpha 2B, pwd		00085-1110-01	3.5	19214		800-521-7157	5
Interferon Alpha 2B, pwd		00085-0285-02		J9214		800-521-7157 8 800-521-7157	
Interferon Alpha 2B, pwd . Roferon A		00085-0539-01	- 32	19214		Si .9	. 1
Interior Alpha 2A 3MIU/ML, inj		00004-2009-09		j9213		B00-413-667	
Interferon Alpha 2A 6M/U/ml, inj		00004-2007-09		j9213 .		800-443-6678	
Interferon Alpha 2A 9MIU/0.9ml, inj		00004-2010-09	TO SHARE	J 9213		800-443-6676	
Interferon Alpha 2A 6MIU/mi, inj		00004-2011-09		19213 19213		800-443-66765 800-443-6676	7
Interferon Alpha 2A 36M/U/ml, int		200 UUUU+7U12-U5		3 J7Z 13:		W 100-11-1070	
limotecan HCL 20mg/ml, inj		00009-7529-07		j 9206		800-242-7014	
trinotecas HCL 20mg/ml, inj		D0009-7529-01		J9206		B00-242-7014	
Leucovorin Calcium, pwd		55390-0051-10	11.17.37)0640			. 🎉
Leucovorin Calcium, pwd Leucovorin Calcium, pwd		55390-0052-1 55390-0053-0		10640	-/4-		, g
Leucovoin Calcium, pwd		58406-0623-0		10640		800-321-4669	
_Lupion*		,	v:y				
Lengroode Acetate, pwd		000035120		J9217		800-453-8438 800-453-8438	. Š
Leuprolide Acetale, pwd Lorazenam Zme/ml. ini		00300-33464 00008-0581-0		J9217 2060		000-133-0430	
Lorazepano zongrini, inj		00008-0581-0		2060			
Lorarepam 4mg/ml, irij		00008-0570-0)2050			
Lorazepam 2mg/ml, inj	9.00	00003-05814		15060.			
Mannitol 25%, inj	200	0007440314	2	· J2150	- 1	13	-
Mustargen* Mechloredramme HCl, pwd		000%7753	33 7 2 2	J923b		BD0 -994- 2111	
Mecsco							•
Megastrol Acetate 20mg Tablet		00015-0595				800-872-8718	
Wichigh voices and 1906		00015-0596				800-872-871) -800-872-871	
Magazine Acetate 40mg Tablet Medical Acetate 40mg Tablet		00015-0596				000872-871	
Megestrol Acetate oral susp 40mg/ml		.000154378				500 872 871	
Alkeran [®]			_				- ' '
Melphalan HCI, prind		00173-0130		19245		800-722-929 800-722-929	
Melphalan 2009 Tablet		00173-0045	-35	3600		000722-929	1
Mesona 100mm/mL inl		00015-3563	ım i	19203		800-872-871	8 •
Methotresate Sodium, pwd		58406-067		19250		800321-466	59
Methotrexate Sodium, pwd		58406067	1.05	j9260		800321-466	39
Methoresate Sodium 25mg/ml, inj		\$5390.003	•	J9260		22	
Methotrexate Societo 25mg/ml, inj Methotrexate Societo 25mg/ml, inj		.55390-003 55390-003		1926 1926		-	_
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Methoiresale Sodium 25mg/mi, inj		58406-068		J926		80032146	-
Methotresale Sodium 25mg/ml, [nj	4.7	58406-068		1926		800321-16	69 .
Methotrevale Sodium 2.5mg Tablet		00555-057		1961			-
Mariner Carlotte Control (1985)	5 - 1 - 25 - 1	APRIL 2000	· OTN T	Et: 1-800-48	2-6700 FAV	(: 1.800-000-567	3 .

Methoterate Sodiem 2 Smg Tablet Mitarrycin* Mitarrycin*, pwd Paclitarrycin*, pwd Paclitarrycin*, pwd Paclitarrycin*, pwd Parrycin*, pwd Paclitarrycin*, pwd Paclitarrycin*, pwd Paclitarrycin*, pwd Paclitarrycin*, pwd Parrycin*,	Survey Land			ر بدوه ما د بدوه ما	ومستدر			
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Methoticiale Sociora 2 Sing Tablet Marachia Mitomychi, pind Octreolide Acetale Somcylmi, inj Octreolide Acetale pind Octreolide Acetale, pind Ondanseron HCI. Zing/mi, inj Ondanseron HCI. Zing/mi, inj Ondanseron HCI. Zing/mi, inj Ondanseron HCI. Zing/mi, inj Paclitace of migmi, inj Ondanseron HCI. Zing/mi, inj Ondanseron HCI. Zin	NDCI AWP/VIAL	2008	BILLING	HOTLINE	·	THERN	PELITICS	3 14
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Minomycin, pard Minomycin, par	15-3002-20	J9290 ⁷	3.00	800-872-871			•	
Macrantrone HO 2mg/ml, inj 10 ml 584 Macrantrone HO 2mg/ml, inj 1725 ml 584 Macrantrone HO 2mg/ml, inj 15 ml 584 Macrantrone HO 2mg/ml, inj 1 ml 600 Octreolide Acetale 100mcg/ml, inj 1 ml 600 Octreolide Acetale 500mcg/ml, inj 1 ml 600 Octreolide Acetale pwd 20 mg 600 Octreolide Acetale, pwd 50 ml 600 Ondansetron HO 2mg/ml, inj 2 ml 600 Ondansetron HO 2mg/ml, inj 2 ml 600 Ondansetron HO 2mg/ml, inj 100 mg 600 Pachtacel 6mg/ml, inj 300 mg 600 Pachtacel 6mg/ml, inj 300 mg 600 Pachtacel 6mg/ml, inj 300 mg 600 Pachtacel 6mg/ml, inj 360 mg 600 Nipenti ²⁰⁰ Pentostalin pwd 10 mg 600 Pachtacel 6mg/ml, inj 360 mg 600 Nipenti ²⁰⁰ Pentostalin pwd 10 mg 700 Pentostalin pwd 10 mg 700 Respiratory Spncytial Virus Invariane globul 20 ml Respiratory Spncytial Virus Invariane globul 20 ml Respiratory Spncytial Virus Invariane globul 50 ml Riturania Streptococin, pwd 10 ml 10	153059-20 93509	J9291 <u>'</u>	一 化高度	800-872-871	<u> </u>			
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Macroantonic HO 2mg/ml, inj 15 ml 584 Indicatation Octreotide Acetate Stancy/ml, inj 1 ml 000 Octreotide Acetate 100 norg/ml, inj 1 ml 000 Octreotide Acetate 500 norg/ml, inj 1 ml 000 Octreotide Acetate 500 norg/ml, inj 1 ml 000 Octreotide Acetate 500 norg/ml, inj 000 Octreotide Acetate, pard 10 mg 10 mg 000 Indiansetion HOL 2mg/ml, inj 100 mg 000 Indiansetion HOL 2mg/ml, inj 100 mg 000 Indiansetion Indianseti	106-06-40-05 127-737623	19293		800-321-466				
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Octreotide Acetale 100mcg/ml, inj Octreotide Acetale 500mcg/ml, inj Octreotide Acetale 500mcg/ml, inj Octreotide Acetale 500mcg/ml, inj Octreotide Acetale pwd O	3	.j9999 <i>j</i> j3490 .	r- m w	800-257-327	n	•	•	•
Octreotide Acetate StOrncy/ml, inj ndostatio LAR® Depot Octreotide Acetate, pard Ondarsetron HCL 2mg/ml, inj Ondarsetron HCL 2mg/ml, inj Ondarsetron HCL 2mg/ml, inj Ondarsetron HCL 2mg/ml, inj Ondarsetron Dimg/Storit, premised bag Oprevetin, pard Smg Pacitized 6mg/ml, inj Pacitized 7mg/ml, inj P	078018040 6407 078018140 11 <i>57</i> 7	. 19999/J3490		800-257-327			-,	
odosiabis LAR® Depot Ochreoide Arctaite, pwd Offian Ondansetron HCL 2mg/ml, inj. Ondansetron HCL 2mg/ml, inj. Ondansetron HCL 2mg/ml, inj. Ondansetron 32mg/50ml, premised bag Oprelvetin, pwd Smg, Oprelvetin, pwd Oprelveti			- 2	800-257-32	73		<i>-</i> .	•
Octreolide Aceiste, pwd Octreolide Aceiste, pwd Octreolide Aceiste, pwd Octreolide Aceiste, pwd Offician Ordansetron HCL 2mg/ml, inj. Ondansetron HCL 2mg/ml, inj. Ondansetron HCL 2mg/ml, inj. Ondansetron Damg/Soml, premixed bag So ml Octreolide Aceiste, pwd Ondansetron Damg/Soml, premixed bag So ml Octreolide Openhetin, pwd Soml Openhetin, pwd Pachitasel 6mg/ml, inj Pachitasel 6mg/ml, inj Pachitasel 6mg/ml, inj Pamidonate disodium pwd Openhetin Pennotoaite disodium pwd Openhetin Pentotain pwd Prochloperazine 5mg/ml, inj Prochloperazine 10mg tab Iot tabs Interview Rantitine 25mg/ml, inj Respiratory Smoytial Virus Immune globul Respiratory Smoyti	2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		图书记	¥`			:	
Octeobide Acetale, pwd 10. mg 00 ofran 10. mg 10. m	078034084 1,358.75	12352		6 BOD-257-32 BOD-257-32				
Ondansetron HCL 2rog/ml, inj. 20 ml 00 Ondansetron HCL 2rog/ml, inj. 2 ml 00 Ondansetron 32mg/Sorth, premised bag 50 ml 00 intumaga* Oprelivetin, pwd 5 mg, 51 intumaga* Oprelivetin, pwd 5 mg, 50 Pachitased 6mg/ml, inj 380 mg 0 Pachitased 6mg/ml, inj 380 mg 0 Aredia* Pamidonate disodium pwd 90 mg 0 Pamidonate disodium pwd 90 mg, 60 Pamidonate disodium pwd 90 mg, 60 Pamidonate disodium pwd 90 mg, 60 Pamidonate disodium pwd 10 mg, 60 Pamidonate disodium pwd 90 mg, 60 Pamidonate disodium pwd 10 mg, 60 Respiratory Syncytial Virus Immune globul 20 ml Respirato	078-0341-84 1,568,355 078-0347-84 2,0037-7					_		-
Ondarsetron HCL 2mg/ml, inj 20 ml 00 Ondarsetron HCL 2mg/ml, inj 2 ml 00 Ondarsetron HCL 2mg/ml, inj 2 ml 00 Ondarsetron 32mg/50ml, premised bag 50 ml 00 Intumaga* Oprelvekin, pwd 5 ml; 51 and* Pacificasel 6mg/ml, inj 30 mg 00 Pacificasel 6mg/ml, inj 360 mg 00 Pacificasel 6mg/ml, inj 100 mg 00 Pacificasel 6mg/ml, inj 2 ml 100 mg 100 Pacificasel 75mg/ml, inj 2 ml 100 mg 100 Pacificasel 75mg/ml, inj 2 ml 100 mg 100 Pacificasel 75mg/ml, inj 100 ml 100 Pacificasel 75mg/ml, inj 100 Pacific	2 1/2 - 3 1/2		15-22		_	-		•
Ondanseton HC. Zmg/ml, nj 2 nd 50 ml 00 Ondanseton 12mg/Somt, premised bag 50 ml 00 Neumaga* Coprelvetin, pwd 5 mk, 58 Izana* Pactizard 6mg/ml, inj 100,mg 00 Pactizard 6mg/ml, inj 100,mg 00 Pactizard 6mg/ml, inj 100,mg 00 Pactizard 6mg/ml, inj 380 mg 0 Aredia* Pamidonate disodium pwd 90,mg 00 Aredia* Pennidonate disodium pwd 90,mg 00 Prochlosperazine 10mg tab 100 tabs Zantac* Rantizine 25mg/ml, inj 10 ml 10 ml Respiratory Smcytial Vinus Immane globul 20 ml Respiratory Smcytial Vinus Immane globul 50 ml Ritusan* Ritusan* Ritusan* Ritusan* Streptozocin, pwd 10 ml Ritusan* Streptozocin, pwd 10 ml Tenhoside 10mg/ml, inj 10 ml Tenhoside 10 mg/ml, inj 10 ml	173-0442-00 255 (1)			差 800-745-29				
Permaga* Oprelvetin, pwd Pacitazel 6mg/ml, ini, Pamidonate disodium pwd Pamidonate disodium pwd Pamidonate disodium pwd Porthoperazine 5mg/ml, ini, Prochloperazine 10mg/ml, ini, Prochloperazine pwd Prochlo	0173-0442-02 25-642	2 12405	海海	800-745-25		-		
Oper lebin, pwd smrt star star star star star star star st	0173-0461-00 (1208-1F)	12405		800-745-25	107		٠-,	•
Pacitized 6mg/ml, inj 30, mg 00 Pacitized 6mg/ml, inj 100, mg 00 Pacitized 6mg/ml, inj 100, mg 00 Pacitized 6mg/ml, inj 360 mg 00 Aredia* Pamidonate disodium pwd 90, mg 00 Pamidonate disodium pwd 90, mg 00 Nipent** Pentostalin pwd 10, mg 10 ms 10 Prochlooperazine 5mg/ml, inj 10 ms 10 Prochlooperazine 10mg tab 100 tabs 10 Zantac* Ranitidine 25mg/ml, inj 2 mi Respiratory Syncytial Virus Immune globul 20 mi Respiratory Syncytial Virus Immune globul 50 mi Ritusan** Ritusan** Ritusan** Ritusan** Streptozocin, pwd 10 mg/ml, inj 10 ml Zanosa* Streptozocin, pwd 10 mg/ml, inj 10 ml Tentposide 10mg/ml, inj 10 ml Timetresate, pwd 10 mg/ml Timetresate, pwd 10 mg/ml Timetresate, pwd 10 mg/ml, inj 10 mg/ml Timetresate, pwd 10 mg/ml, inj 10 mg/ml Vincistine sulfate 1mg/ml, inj 10 mg/ml Vincistine 10 mg/ml, inj 10 mg/ml	8394000401 24829	12355	23.00	888-638-6	342	•	•	
Paclitated 6mg/ml, inj Paclitated 7mg/ml, inj	95078	ž						
Pacifixed broginit, inj Aredia* Parnidonate disodium pwd Parnidonate disodium pwd Parnidonate disodium pwd Pentidonate ing two Pentidonate	0015-3475-30	§ 19265		800-872-8				
Parnidonate disodium pwd 30-mil / 0 Parnidonate disodium pwd 90 mg 20 Pernidonate disodium pwd 90 mg 20 Prochlorperazine 5 mg/ml, lvj 10 ms 10 ms 10 Prochlorperazine 10 mg tab 100 tabs 100 tab	0015347630	J9265		800-872-8			•	•
Pamidonate disodium pwd Pamidonate disodium pwd Pamidonate disodium pwd Penidonate disodium pwd Penidonate disodium pwd Penidotatin pwd Prochlorperazine 5mg/ml, lvij Prochlorperazine 10mg tab Prochlorperazine 10mg/ml, ivi Proc	10015-3479-11	€ <u>19265</u> €	7453E417	語学 800-872-8 記録	, 10	_	-	-
Particionate disodium pwd 90 mg 10 m	00083-2601-04 37344-23	12430		B00-257-3	273			
Pentostatin pwd Prochloperazine 5mg/ml, inj Prochloperazine 10mg tab Zartac* Ranitidne 25mg/ml, inj Respiratory Sprcytial Virus Immune globul Ritusan* Ritusinab 10mg/ml, inj Ritusinab 10mg/ml, inj Supplozocin, pwd Vumon* Supplozocin, pwd Vumon* Tentiposide 10mg/ml, inj Thioples* Thioteta, pwd Hycamin* Topotecan, pwd Hercopin* Trastrumah, pwd Neutresia* Trimetresate, pwd Trimetresate, pwd Trimetresate, pwd Trimetresate, pwd Virobastine sulfate Img/ml, inj Vincristine sulfate Img/ml, inj	00083-2609-01 7678-31	≨)2430	Diam.	500-257-3	273			
Prochloperazine Smg/ml, inj Prochloperazine 10mg tab Zardac [®] Ranifatine 25mg/ml, inj Respiratory Smcytial Virus Immune globul Respiratory Smcytial Virus Smcytial Virus Tantory Immune Temposite Inmg/ml, inj Virus Virus Immune globul Virus Immune Virus Immune globul Virus Immune Virus				8003404		_		
Prochloperative 10mg tab Zantac* Ranjizine 25mg/ml, inj Respigan* Respiratory Syncytial Virus Immune globul Rituani* Rituaniab 10mg/ml, inj Rincinab 10mg/ml, inj ID ml IR Rincinab 10mg/ml, inj ID ml IR Rincinab 10mg/ml, inj ID ml IR Rincinab 10mg/ml, inj I	62701-0800-01	闰 19268 底 10780		800699		•		•
Zartisc* Ranibine 25mg/ml, inj Respiratory Syncytid Virus Immune globul 50 ml Ritusinab 10mg/ml, inj Ritusinab 10mg/ml, inj 10 ml Ritusinab 10mg/ml, inj 50 ihitig Zanosa* Sueptozocin, pwd Vumon* Tentiposide 10mg/ml, inj Tinipoles* Thiotels* Thotels* Thotels* Topotecan, pwd Hercrybin* Trastrumab, pwd Neutran* Tinipersate, pwd Trimetresate, pwd Trimetresate, pwd Urokinase, pwd Urokinase, pwd Vinibastine sulfate 1mg/ml, inj Vincristine sulfate 1mg/ml, inj	00007-3343-01 (7.54)618 00007-3367-20 (7.55)61	Q0165		E00699		•.	•	
Raniförinė 25mg/ml, inij 2 mil Respiratory Syncytial Virus Immune globul 20 mil Respiratory Syncytial Virus Immune globul 50 mil Ritusinal 10mg/ml, inij 10 mil Ritusinalo 10mg/ml, inij 50 initie Zanosana Streptozocin, pwd 10mg/ml, inij 50 initie Zanosana Streptozocin, pwd 10mg/ml, inij 71mg/ml Tiestinosidie 10mg/ml, inij 71mg/ml Tiestinosidie 10mg/ml, inij 71mg/ml Tipotocian, pwd 10mg/ml Tipotocian, pwd 10mg/ml Tipotocian, pwd 10mg/ml Tipotocian, pwd 10mg/ml Timetrevate, pwd 10mg/ml Timetrev	1100	4						
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Respiratory Specyrial Virus Instrume global 50 mi Rituran Riturnal 10mg/ml, inj 10 ml Riturnal 10mg/ml, inj 50 initial 3 Zanosa Streptozocin, pwd 10mg/ml, inj 50 initial 3 Zanosa Streptozocin, pwd 10mg/ml, inj 7 Tentposide 10mg/ml, inj 7 Tentposide 10mg/ml, inj 7 Thioples Thiotepa, pwd 10mg/ml, inj 10mg/ml, in	60574-2102-01	通 11565						
Rituran* Rituran* Rituran* Rituran* Rituran* Rituran* In Ind	60574-2101-01			20			•	
Ritecinab 10mg/ml, inj Streptozocin, pwd Vumon Teinposide 10mg/ml, inj Thioples Thiotela, pwd Hycamis Topotecan, pwd Topotecan, pwd Topotecan, pwd Hercepan Tiastrumah, pwd Neutrean Tiastrumah, pwd Neutrean Timetrecate, pwd Timetrecate, pwd Univiruse, pwd Univiruse, pwd Univiruse, pwd Univiruse, pwd Vinibasine sulfate 1mg/ml, inj Vincristine sulfate 1mg/ml, inj		33			· · ·			
Zanosa* Streptozocin, pwd Vumon* Teniposide 10mg/ml, inj Thioples* Thioteja, pwd Hycamin* Topotecan, pwd Horopin* Tastraurah, pwd Heropin* Tinetresate, pwd Trimetresate, pwd Trimetresate, pwd Urbkinase, pwd Urbkinase, pwd Vinbastine sulfate Img/ml, inj Vincristine sulfate Img/ml, inj	50242-0051-21	J9310	. 332	800-530				
Streptozocin, pwd Vumon Tentposide 10mg/ml, inj Thiopies Thiopies Thiopies Thotega, pwd Hyczmini Topotecan, pwd Topotecan, pwd Herceptin Tastururrah, pwd Neutrean Timetrecate, pwd Timetrecate, pwd Timetrecate, pwd Urbinase, pwd Urbinase, pwd Urbinase, pwd Vinbastine siliae pwd Vinbastine siliae ing/ml, inj Vincristine siliae img/ml, inj	50242-0053-06 (302170	931D	8/32/34DU	100-530 100-530	-3003	• :		•
Vumon* Temposide 10mg/ml, inj Thiople* Thiople* Thiople* Thiople* Thiople* Thiople* Topolecan, pwd Topolecan, pwd Topolecan, pwd Topolecan, pwd Topolecan, pwd Timetersate, pwd Timetersate, pwd Timetersate, pwd Timetersate, pwd Utokinase, pwd Utokinase, pwd Utokinase, pwd Vinbastine saliate img/ml, inj Vincristine saliate Img/ml, inj	00009-0844-D1	19320 19320		800-247	2-7014	-		
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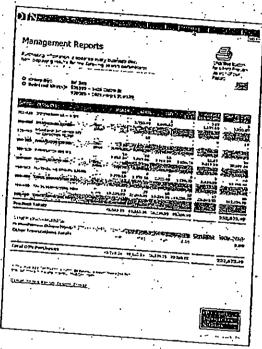
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rules and policies for medical practice. Primary references should be consulted. The reader is encouraged to review the manufacturer's package insert where applicable.

Comments and suggestions are welcome. Address them to: Peggy Lebmann, Editor, The Network News Ontology Therapeutics Network 195 Oyster Point Blied, Suite 405 So, San Francisco, CA 94080.

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Why participate?

- ◆ Simplifies the use of oral therapies in the physician's office
- Eliminates concerns over reimbursement delays and denials
- ◆ Service is provided "free of charge" by OTN

How does ORCA work?

There are four components to the program:

- 1. Enrollment in the National Supplier Clearinghouse (NSC)
- 2. Drug fulfillment through OTN
- 3. Billing, collection, and appeals of individual claims through ORCA
- Drug replacement is guaranteed if reimbursement is not approved

Which oral medications and insurance carriers are covered by ORCA?

- ◆ Cytoxan® Tablets (cyclophosphamide tablets, USP)
- ◆ VePesid® (etoposide) Capsules

The ORCA program covers all Medicare patients. It is expected that the program will be expanded in the near luture to cover additional chemotherapeutic and supportive care medicines and additional insurance carriers.

Who is eligible to participate in ORCA?

Any office-based physician practice is eligible to participate in the ORCA program.

How do I enroll in the program?

- If you are not already an OTN customer, call 1-800-482-6700 to set up an account.
- Once you have set up an account, or if you are already an OTN
 customer, call the ORCA program at 1-877-5AY-ORCA
 (1-877-729-6722) to request an expoliment packet.

The ORCA program is a free service provided by OTH and is administered by AccessAED, 6900 College Boalevard, Suite HOD, Overland Park, KS 6621). AccessAED is a leading embousement and constituting time focused on oncology.

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970-305	0088-1203-29	Anzemet	dolasetron mesylate	· 100 mg tablets blister pack	5	\$321.45	\$686.40
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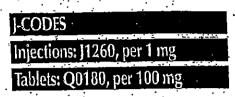
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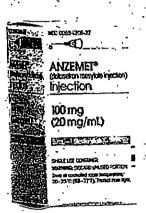
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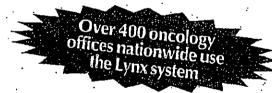
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NEEDLESTICK AND SHARPS INJURY PREVENTION

ONCOLOGY THERAPIUMICS METWORK

New Rules Could Affect You

by James Kearney and Rarbara Winter-Watson

ver the last several years, industry has developed needles and other sharps injury protection designed to protect workers against exposure to blood and other potentially infectious materials (OPIM). Some surveys suggest that the use of these new safety devices have demonstrated a 23 to 85 percent reduction in needlestick injuries. As a result, the Occupational Safety and Health Administration (OSHA), along with state officials, nursing leaders, and union. organizers, are taking steps to publicize the dangers of conventional needles and mandate safer needles in all healthcare settings.

The Risks

According to the Centers for Disease Control and Prevention, healthcare workers



in the United States
report some 800,000
needlestick injuries
each year. Well over
half of these
reported injuries
occur to nurses.
Needlesticks are the

occupational exposure to HIV, hepatitis B, and hepatitis C. The infection rate from a needlestick involving contaminated blood is about 0.3 percent for HIV, but can reach 10 percent for hepatitis C and 30 percent for hepatitis B.

Research indicates that needlestick injuries often go unreported. According to hospital surveys conducted by several groups, approximately one-third to one-half of all needlesticks go unreported. This could mean that well over 1 million sharps injuries are occurring in the workplace each year (two per minute). Because a single needlestick injury carrcost thousands to hundreds of thousands of dollars, the

potential cost to the healthcare industry of such injuries can reach hundreds of millions of dollars.

Engineered for Safety

Industry has responded to these significant risks by developing safer needles and needleless systems. Devices such as various retractable and self-sheathing needles are widely available today. There have been more than 1,000 U.S. patents issued during the past 10 years in the area of safer needle technology," according to Lynda Arnold, RN, founder and president of the grassroots organization National Campaign for Healthcare Worker Safety, whose mission is to get every U.S. hospital to agree to replace conventional blood drawing needles and IV catheters with the newer safety devices.

Unfortunately, many of these safety devices are not making it to the healthcare setting. There are a lot of pressures on industry to maintain costs, and because the Food and Drug Administration (FDA) has not banned conventional needles, these costs are the major factor preventing hospitals from purchasing these new safety devices. Manufacturers themselves also have little financial incentive to publicize the availability of these safety devices because upwards of 90 percent of their sales are from conventional devices.

New Mandates

Needlestick safety devices are now the law in five states — California, Texas,
Tennessee, Maryland and New Jersey — and similar legislation is pending in some 16 others. For example, California OSHA has put into place stronger requirements for employers to use needles and other sharps that are engineered to reduce the chances of inadvertent needlesticks or sharps injuries. They now mandate the use of "needleless systems, needle devices with

engineered sharps injury protection, and non-needle sharps with engineered sharps injury protection." In an effort to increase reporting of workplace needlesticks, California also now requires a sharps injury log be kept, which records the date and time of each sharps injury resulting in an exposure incident, as well-



as the brand of device involved.

Federal OSHA has recently changed its enforcement guidance on the federal Bloodborne Pathogens standard (29 CFR 1910.1030) as a means to encourage companies to use the newer devices. Essentially, OSHA now considers sale needle technology to have advanced to the point where its effectiveness and availability make it justifiable to require their use in health care settings. http://www.osha-slc.gov/OshDoo/Directive_data/CPI_2-2_24D.html#CLARIFICATION

OSHA considers safe needles and needleless devices to be "engineering controls," and issues this warning in its Guidance:

"NOTE: Where engineering controls will reduce employee exposure either by removing, eliminating or isolating the hazard, they must be used. Significant improvements in technology are most evident in the growing market of safer medical devices that minimize, control or prevent exposure incidents."

Paragraph (d)(2)(i) requires the employer to institute engineering and

See NEEDLESTICK, page 10

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by Claire E. Gilmore PharmD, BCOP

ONCOLOGY DRUG UPDATES

Epirubicin for the Adjuvant Treatment of Node-Positive Breast Cancer: A Comparison with Doxorubicin

nihe Fall of 1999, after a unanimous recommendation by the members of the Oncologic Drugs Advisory Committee of the Food and Drug Administration (FDA), epirubicin hydrochloride (Ellence®, Pharmacia) became the first cytotoxic agent approved as a component of adjuvant therapy for women with axillary

therapy for women with axillary lymph-node-positive breast cancer. Epinibicin, the 4'-epimer of doxorubicin, is an anthracycline cytotoxic agent that has been marketed worldwide since 1982 for the treatment of several cancers, including breast, ovarian, lung, stomach, liver, and bladder; lymphomas; and sarcomas.'

Currently, several different combination chemotherapy regimens are used as adjuvant therapy of node-positive early breast cancer. Excluding epirubicin-containing regimens, these regimens include doxorubicin and cyclophosphamide (AC); cyclophosphamide, methotrexate, and fluorouracil (CMF); cyclophosphamide, doxorubicin, and fluorouracil (CAF); and AC followed by paclitaxel. Recently, the Early Breast Cancer Trialists' Collaborative
Group (EBCTCG) published results of a meta-analysis
of polychemotherapy of early breast cancer, which
compared anthracycline-containing regimens (both
doxorubicin and epirubicin) with CMF as adjuvant
therapy of early breast cancer. Results of this

> analysis demonstrated a superiority of anthracyclinecontaining regimens over CMF in both reducing breast cancer recurrence rates (12% proportional risk reduction; P=.006) and improving mortality (11% proportional risk reduction, P=.02).

Epirubicin versus Doxorubicin Pharmacologic and Pharmacolonetic Differences

The proposed mechanism of cytotoxic activity of enirubicin includes DNA intercalation, which inhibits DNA, RNA, and protein synthesis and triggers DNA cleavage by topoisomerase II.3.4 Although epirubicin and doxorubicin vary only by the orientation of the 4'-hydroxyl group (equatorial in epirubicin and axial in doxorubicin), clinically significant pharmacologic differences exist. First, epirubicin has a lower pKa than does doxorubicin, which makes it more lipophilic and better able to penetrate cell membranes.5 Second, unlike doxorubicin, epirubicin undergoes glucuronidation in the liver into inactive metabolites (Figure 1). Because of this rapid plasma clearance, epirubicin has a shorter half-life than that of doxorubicin (approximately 30 vs 45 hours), which reduces patient exposure to metabolites that are potentially toxic to normal tissues, including the heart.5

Differences in Toxicity

The toxicity profile of epinabicin is more favorable than that of doxorublcin. Clinical trials comparing equimolar doses of epinabicin and

NEEDLESTICK, CONTINUED

work practice controls as the primary in an ing employee exposure. OSHA has all an ing employee exposure. OSHA has all an ing employee exposure of the technology was not readily available out in 1991. Thus the employer is extessed work practice controls that eligible of the lowest feasible extent exposures requires a compile controls (e.g., needleless de capillary tubes) and proper you handling contaminated sharps.

It appears that momentum is building use of engineered needlestick injuly mey settings. Although these devices will be needlesticks and other sharps mixed will contribute to a significant realization costs to industry.

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Glutamine and Cancer Therapy Symptom Management

by Melodie Thomas, BSN, RN, OCN, CCRP Director of Research Nursing The Sarah Cannon Cancer Center, Nashville, TN

Introduction

Patients with cancer receiving chemotherapeutic agents must cope with a wide
range of therapy-induced symptoms that
are often difficult for physicians and nurse
clinicians to manage. Recent data suggests
a potential benefit of supplementation
with the amino acid glutamine during
chemotherapy to prevent and treat various
toxicities, including mucositis, arthralgia,
myalgia, diarrhea and peripheral neuropathy. The purpose of this article is to
educate the oncology nurse on the current
status and potential role of glutamine in
successfully managing these treatmentassociated toxicities.

The Role of Glutamine

Of the 20 amino acids involved in protein synthesis, glutamine is the most abundant. It is found in blood and tissues¹, and is primarily formed and stored in skeletal muscle and the lungs.² Some of the functions of glutamine in the body include: (1) donating nitrogen for various synthetic pathways; (2) serving as a precursor in both nūcleic acid and nucleotide synthesis; (3) playing a role in acid-base balance in the body; (4) serving as a precursor of neurotransmitters;

and (5) providing an energy source for cells of the immune system, specifically

lymphocytes and macrophages.3 Glutamine also plays a role as a regulator of glycogen synthesis and is an important metabolic substrate for cells of the intestinal mucosa.4 Glutamine has classically been considered a nonessential amino acid, as it is synthesized by the body rather than having to be obtained solely through the diet. However, when the body experiences metabolic stress or catabolic disease states, glutamine deficiency can occur following the free : release of glutamine from skeletal muscle. which causes intracellular glutamine concentrations to drop by 50% or more. This observation has led to the more recent classification of glutamine as a conditionally essential amino acid.46 The importance of glutamine in the body would seem to argue for the inclusion of glutamine to any form of nutritional support given to a patient experiencing metabolic stress, regardless of the underlying cause.

The Role of Glutamine in Tumors

Cancer is among the disease states that can lead to depletion of glutamine from the body.' Because glutamine is a primary source of energy for rapidly growing tumors, tumors are often referred to as glutamine traps. In cases of advanced

malignant disease, glutamine depletion from skeletal muscle can be quite serious, leading to cachexia. There was understandably some hesitation at the idea of supplementing the cachexic cancer patient with glutamine due to concerns that this could stimulate tumor growth. However, as studies examining the effect of supplemental glutamine on tumor growth have been completed, it has emerged that there is no enhancement of tumor growth with glutamine supplementation. In fact, secent studies have suggested evidence that glutamine supplementation may decrease tumor growth. **10**

Proposed mechanisms by which glutamine supplementation decreases tumor growth include up-regulation of the immune system increasing susceptibility of tumor cells to chemotherapy. Results from a variety of studies conducted using animal models suggest that glutamine up-regulates the immune system by increasing the activity of the subset of T-cells known as natural killer cells.11-14 Glutamine also appears to exert an effect via changes in glutathione metabolism. Rouse, et al. demonstrated that rats receiving glutamine had decreased glutathione levels in tumor tissue which corresponded to increased susceptibility to chemotherapy, while glutathione levels in normal tissue were

Continued on next page

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increased or maintained, helping to protect the cells from injury. Therefore, glutamine may serve to simultaneously protect normal tissues from chemotherapy and increase susceptibility of the tumor cells.

Glutamine and Cancer Therapy Symptom Management

During the past decade, glutamine has been studied extensively in both animal and human clinical trials. Human trials demonstrate glutamine is sale to deliver with a variety of chemotherapeutic agents with no added toxicity.16,17 In addition, randomized human trials have been performed that show glutamine supplementation can significantly reduce the duration and severity of chemotherapy associated slomatitis. 16, 17 Savarese et al. published a case report involving five patients treated with glutamine for the management of paclitaxel-induced arthralgia and myalgia. 16 The patients received paclitaxel 175mg/m² - 200mg/m², over 1 to 3 hours, either alone or in combination.

All patients developed moderate to .
severe myalgia and/or arthralgia within
24-36 hours after the initial course of
treatment. After the second treatment,
the patients received glutamine 10 grams
by mouth, three times daily, beginning 24
hours after the paclitaxel dose. None of
the five patients developed myalgia or
arthralgia while receiving the glutamine.

Animal data demonstrate oral glutamine can be delivered during radiation therapy and assist in maintaining the gut mucosal barrier and integrity of enterocytes. Boyle, et al. used a rat model to explore the effects of glutamine supplementation on peripheral neuropathy associated with vincristine19 and with paclitaxel and cisplatingo. The authors concluded that glutamate (the acid of glutamine) appears to be an effective neuroprotectant, against both sensory and motor neuropality, without compromising the anti-tumor activity of paclitaxel. Although the mechanism of neuroprotection by glutamine was not elucidated, this work prompted clinical trials involving glutamine supplementation in humans. 🗸

Summary

In conclusion, data in both animals and humans support dietary supplementation with oral plutamine for the management of chemotherapy and radiation therapy induced toxicities. Clinical trials are currently underway in NCI-sponsored Cooperative Groups as well as academic and hospital-based cancer centers further evaluating the role of glutamine for management of therapy induced mucositis, diarrhea, arthralgia, myalgia and neuropathy. Although trials are underway, the optimal dose and schedule of glutamine has not yet been determined in cancer patients. However, anecdotal experiences utilizing 10 grams of glutamine powder three times daily beginning the day of chemotherapy or 24 hours following for three to five days has resulted in significant symptom reduction. The role of the oncology nurse is vital in the effective management of treatmentrelated toxicities. Early symptom assessment and utilization of oral glutamine may significantly reduce these toxicities and enhance quality of life for patients with cancer.

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doxorubicin have established the following doxorubiin-to-epirubicin dose ratios that produce similar degrees of toxicity: hematologic, 1:1.2; nonhematologic, 1:1.5; and cardiac, 1:1.8.7 The primary acute toxicities of epirubicin include a reversible neutropenia, mucositis, nausea and vomiting, and alopecia. Cardioloxicity, typically manifested as congestive heart failure (CHF), may also occur following epirubicin administration.3 However, the probability of developing CHF with epirubicin occurs at approximately twice the cumulative dose of doxorubicin—between 950 and 1,000 mg/m² of epirubicin compared with 450 mg/ m² of doxonibicin.6. Secondary acute myelogenous leukemia (AML) has also been reported following treatment with epirubicin or doxorubicin in a cyclophosphamide-containing combination regimen, but the incidence is rare with either (less than 1% at 5 years for epirubicin and less than 1% at 4 years for doxorubicin). 48 Secondary AML has been reported in patients treated with topoisomerase II inhibitors, including anthracyclines, and occurs more commonly when these drugs are combined with DNA-damaging cytotoxic agents, such as cyclophosphamide.

Evidence suggests that both epirubicin and doxorubicin display a steep dose response relationship in breast cancer treatment. However, because of toxicities, including cardiotoxicity, mucositis, and hand-foot syndrome, doxorubicin doses cannot be escalated in single doses greater than 75 to 100 mg/m², whereas epirubicin can be administered in single doses as high as 180 mg/m². 9.10

Clinical Trials of Epirubicin and Doxorubicin in the Adjuvant Treatment of Early Breast Cancer

Anthracycline-based regimens are gaining in popularity over CMF as adjuvant therapy of women with node-positive early breast cancer based on encouraging clinical trial data coupled with favorable results of the EBCTCG meta-analysis,

the National Comprehensive Cancer Network practice guidelines, and recommendations from the St. Gallen International Consensus Panel. 231,12 Results of 2 large randomized trials of women with node-positive breast cancer demonstrated no difference in overall survival (OS) times between 4 cycles of AC and 6 cycles of CMF or 6 cycles of CAF and 6 cycles of CMF (Table 1)." ... Only 1 trial has documented the superiority of a doxorubicin-based regimen over CMF in both disease-free survival (DFS) and OS times; however, this Oncofrance trial compared 12 cycles of treatment with doxorobicin, vincristine, cyclophosphamide, and fluorouracil (AVCF) with CMF (Table 1), which is an impractical approach because most chemotherapy regimens for advanced breast cancer are administered over only 4 to 6 cycles. 15 A US Intergroup trial compared CAF with CMF; CAF demonstrated a marginally superior survival time but was more toxic than CMF.* Of note, only high-risk patients with node-negative early breast cancer were included.

Epinibicin was FDA approved as adjuvant therapy of early breast cancer based on data from 2 large, phase Ill randomized trials—a pivotal trial sponsored by the National Cancer Institute of Canada Clinical Trials Group (NCIC CTG) reported by Levine et all a supportive trial sponsored by the French Adjuvant Study Group (FASG) reported by Bonneterre et al (Table 1). The NCIC CTG MA.5 trial compared dose intensive cyclophosphamide, epinubicin, and fluorouracil (CEF) with CMF in

Continued on next page

Table 1. Trials of Adjuvant Doxorubicin- or Epirubicin-Containing Regimens vs CMP

Study -	Patient Population	No. of Patients	Regiment	Relapse-Free Survival Rate	Orerall Survival Rate
BCTCC	AL 3	5,942	military citie	57.3% vs 54.1% (P=.006)	(F)01)
Fisher et al ¹⁰	Node-positive	2,194	v -	DFS: 62 % vs 63 % (P=NS)	TO THE PLANS
Carpenter et alle	Node positive	528	DE ST	NR	7 68 % (214 1 242)
Misset et al ¹³	Node Sositives	. 249	AUT	DFS: 53%-ys 36% (P=.006)	23.000
Hutchins et all	Nodenegative	2,691	TALY CHE	DFS: 85% vs 82% (P=.03)	
Levine el al ^o	Node positive	710		63% vs 53% (P=.009)	
Bonneterre et al	Node positive	565	THE DOMESTIC	65% vs 52% (P=.007)	
Wik et ala	Node positive	604		73.7% vs 62.1% (P=,023)	17.0% ENSI
Moundsen et al ¹⁰	Ali	1,195	OF A Selv	63% vs 58% (P=,003)	(E-009)
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ONCOLOGY DRUG UPDATES, CONTINUED

710 pre- or perimenopausal women with nodepositive breast cancer (Table 2). "With 5 years of
follow-up, both relapse-free survival (RFS) and OS
times were statistically significantly prolonged in the
CEF group compared with the CMF group. Of note,
this trial and the Oncofrance trial of 12 cycles of
AVCF vs CMF were the 2 studies in the EBCTCG
overview analysis that documented a clear superiority of anthracycline-based regimens over GMF. Description of positive breast cancer to receive 6 cycles of
fluorouracid, epirubicin (100 mg/m² or 50 mg/m²),
and cyclophosphamide (FEC 100 or FEC 50) (Table
2). With a median follow-up of 5 years, both RFS and

Table 2. Adjuvant Epirubicin-Containing Regimens

, ,		
-	. Levice et al ¹⁷	Bopneterré el al ¹⁹
· Treatment arm	CEF 120 q.4 wk	FEC 100 q 3 wk
	C 75 mg/m² pơ days 1-14 E 60 mg/m² IV days 1 + 8 F 500 mg/m² IV days 1 + 8	F 500 mg/m² TV day 1
l	E60 mte/m² N°davs t + 8	E 100 mg/m² IV day 1
•	F 500 mg/m 1V days 1 + 8	E 100 mg/m² IV day 1 C 500 mg/m² IV day 1
Control asm	CMFq4wk	FEC 50 g 3 wk
_		
•	C 100 mg/m² po days 1–14	F 500 mg/m² IV day 1
L	C 100 mg/m² po days 1–14 M 40 mg/m² IV days 1 + 8	E 50 mg/m² IV day 1
§	F 600 rog/m² IV days 1 + 8	E.500 me/mb/th-days-en
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OS times were statistically significantly prolonged in the FEC 100 group compared with the FEC 50 group; thereby demonstrating a clear dose-response effect for epirubicin-based adjuvant therapy.

The results of 2 additional phase III studies strongly support the use of epirubicin in the adjuvant treatment of early breast cancer. 19,20 Wils et ali9 reported results of a trial sponsored by the International Collaborative Cancer Group in which 604 postmenopausal women with node-positive, operable breast cancer were randomly assigned to receive adjuvant therapy with prolonged tamoxifen therapy alone or in combination with single-agent. epirubicin (50 mg/m² days 1 and 8). Epirubicin plus tamoxifen produced a 28% reduction (P=.023) in the odds of breast cancer recurrence and a 12% reduction in mortality compared with tamoxilen alone, making this the first study to document an improvement in RFS with single-agent adjuvant chemotherapy. In a trial sponsored by the Danish Breast Cancer Cooperative Group and reported by Mouridsen et al, 20 1,195 high-risk breast cancer patients (both pre- and postmenopausal, both node-

positive and node-negative) were randomized to receive CEF or CMF. A statistically significant difference in RF5 and OS times was observed in the combined analysis of the 3 subgroups of CEF compared with CMF.

Pharmaceutical and Clinical Practice Issues

The recommended starting dose of epirubicin as a component of adjuvant therapy with fluorouracil and cyclophosphamide is 100 mg/m2 on day 1 of each 3-week cycle or 60 mg/m2 on days 1 and 8 of each 4-week cycle. Epinubicin is available in 2 single. use vial sizes-50 mg and 200 mg-that should be refrigerated while unopened and used within 24 hours of the first penetration of the rubber stopper. As a precaution against infections, patients who receive the 120-mg/m² (60 mg/m²) dose should also receive prophylactic antibiotic therapy with trimethoprim-sulfamethoxazole or a fluoroquinolone. This recommendation is based on the results of a pilot study showing antibiotic prophylaxis reduced the risk of febrile neutropenia in patients receiving epirubicin 120 mg/m^{2,21} Standard dose modifications exist for hematologic and nonhematologic toxicities. Because epirubicin is eliminated by hepatic metabolism and biliary excretion, dose reductions are recommended for patients with hepatic dysfunction.

Conclusions

It is apparent that adjuvant regimens containing epirubicin are associated with a significant prolongation in RFS and OS times compared with standard therapies, such as CMF. As expected with any anthracycline agent, epirubicin is associated withcardiotoxicity, however, when epirubicin is compared with doxonabicin at equimolar doses, the incidence of cardiotoxicity is much lower with epirubicin, Furthermore, dose-intensification with epinubicin is feasible and well tolerated, resulting in improved outcomes not observed with doxorubicin. Positive effects of epirubicin-containing regimens have been observed across a range of subgroups, including patients with node-positive or nodenegative disease, premenopausal and postmenopausal patients, and patients with hormone-receptorpositive and -negative tumors. Ongoing research efforts are focusing on combining anthracyclines with newer cytotoxic agents, such as the taxanes, as a

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method to improve outcomes following adjuvant heraps. Doxorubicin-taxane combinations have hownercellent antitumor activity, but at the expense of an uniavorable cardioloxicity profile 222) Epinobicin-taxane combinations are highly active and appear to be well tolerated, thus setting the stage for

further research of this combination as adjuvant therapy.2425 With its favorable clinical activity and side effect profile, epirubicin is challenging doxorubicin as the anthracycline of choice for the adjuvant treatment of early breast cancer.



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ODAC RECOMMENDATIONS

he Food and Drug. Administration's IFDA's) Onco logic Drugs Advisory Committee (ODAC) met in March 2000 to review. data for 3 drugs. Gemtuzumab ozogamicin i MylotaigÔ, Wyeth-Ayerst Laboratoriess received accelerated approval for the treatment of patients 60 years of age or older with CD33positive relapsed acute myeloid leukemia (AML). Gemtuzumab is a humanized recombinant monoclonal antibody that is specific for the CD33 antigen, which is commonly expressed by myeloid leukemia cells, In clinical trials, gemluzumab 9 mg/m² was administered as a 2-hour intravenous (IV) infusion on days 1 and 15.1 The primary nonhematologic side effect of gemtuzumab is self-limited lever and chills, which requires premedication with diphenhydramine and acetaminophen: hyperbilirubinemia and hepatic transaminase elevations may also occur. Neuropenia and thrombocytopenia are the primary hematologic toxicities. Of note, gemtuzumab lessened mucositis and length of hospitalization.

Irinotecan (Camptosar³, Pharmacia & Upjohn) has received unanimous approval for an expanded indication as a first-line therapy, in combination with 5-fluorouracil (5-FU) and leucovorin, for metastatic colorectal cancer (MCRC), Irinotecan had previously received FDA approval as second-line therapy of MCRC. Data supporting this indication came from 2 pivotal phase III trials, in which irinotecan increased overall survival times.23 In a US study, 231 patients with MCRC received irinotecan 125 mg/m2 IV over 90 minutes followed by leucovorin 20 mg/ m² and 5-FU 500 mg/m² (both IV bolus) weekly for 4 weeks, with this regimen repeated every 6 weeks.2 The control groups received a standard 5-FU-

leucovorin regimen (n=226) or singleagent irinolecan (n=226). The median survival time was significantly prolonged in the innotecan combination group compared with the 5-FUleucovorin group (14.8 vs 12.6) months, P=.042). Additionally, time to tumor progression was significantly prolonged in the irinotecan combination group compared with the 5-FUleucovorin group (7 vs 4.3 months, P=.004). In a European study, the median survival time was significantly prolonged for 198 patients who received irinotecan plus 5-FU-leucovorin compared with 187 patients who received 5-FU-leucovorin alone (17.4 months vs 14.1 months, P=.032).3 Primary side effects of irinotecan include delayed diarrhea, neutropenia, alopecia, nausėa and vomiting, cholinergic symptoms, anorexia, and asthenia.

A third drug reviewed by the ODAC in March, oxaliplatin (Eloxatine², Sanofi Synthelabo), did not receive approval as first-line therapy for patients with MCRC. Concerns about increased neurotoxicity and lack of improved survival rates were potential reasons why this new drug application was not approved.

Recent FDA Approvals Anticancer Drugs

The FDA approved several new agents in March. Leuprolide acetate implant (ViadurÖ, Alza Corporation) was approved as an ainual palliative treatment for advanced prostate cancer. Leuprolide acetate implant is a miniature titanium cylinder that provides continuous delivery of stable drug for 12 months. Common side effects in clinical trials of leuprolide acetate implant included vasodilation (hot flashes), asthenia, gynecomastia, and bruising at the insertion site.

Leuprolide acetate implant also causes a transient increase in serum testosterone levels during the first week of treatment, which may result in worsening of symptoms, particularly pain or bladder outlet obstruction symptoms.

Pacis BCGa(Bacillus Calmette-Guerin (BCG), BioChem Pharma Inc) intravesical immunotherapy, which contains live, attenuated BCG mycobacteria, received FDA approval for the treatment of carcinoma in situ of the urinary bladder. The recommended course of treatment is a weekly outpatient dose for 6 weeks.

Anticancer Orphan Drug Products

The Office of Orphan Products Development of the FDA has recently granted orphan drug designation to several drugs, including PentaceaO (IBC Pharmaceuticals) for the treatment of small cell lung cancer. Pentacea is a form of tumor-targeted radiation therapy. Histamine dihydrochloride (Maxaminea, Maxim Pharmaceuticals) has been granted orohan drug status as an adjunct to cytokine therapy for the treatment of acute myeloid leukemia and malignant melanoma. Thymalfasin (Zadaxinâ, SciClone Pharmaceuticals) was also granted orphan status as immunotherapy for the treatment of hepatocellular carcinoma.

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